BULLETIN

OF THE INSTITUTE OF METALS

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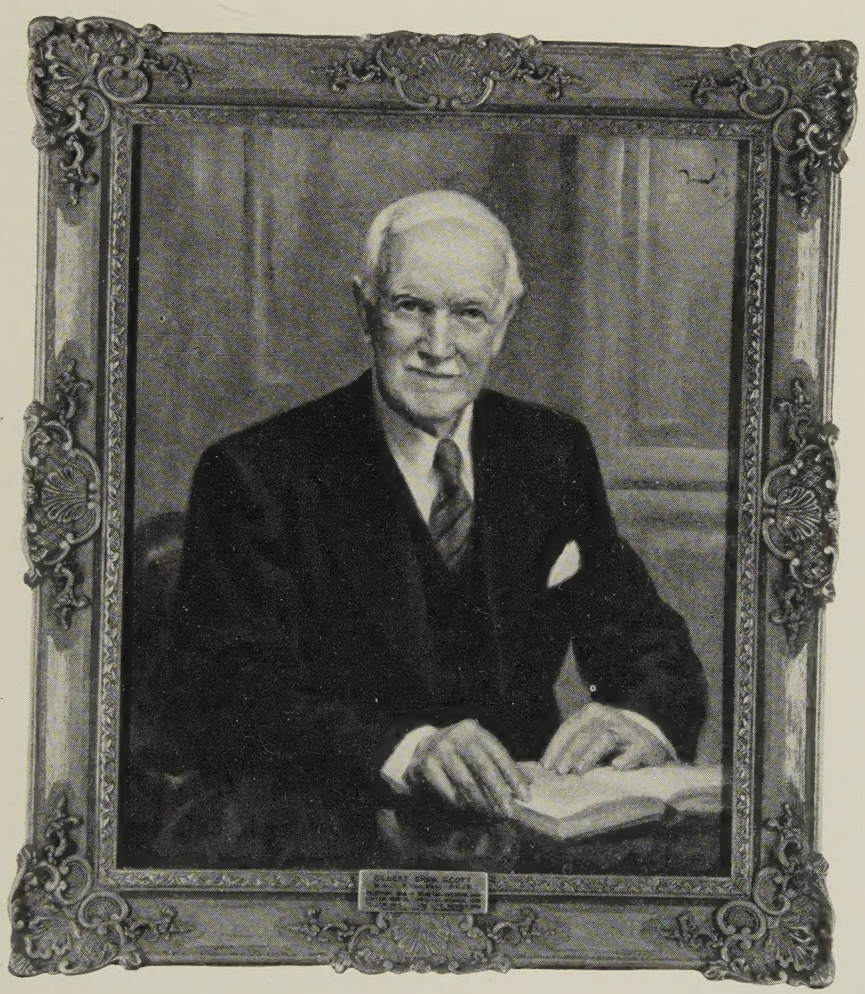
INSTITUTE NEWS

Presentation by Mr. G. Shaw Scott



On Wednesday, 6 February, at the end of the first Council meeting to be held in the Institute's new Headquarters, Mr. G. SHAW SCOTT, Secretary Emeritus, presented his portrait, painted in oils by Mr. A. G. Mills, to the Institute.

In a short speech, Mr. Shaw Scott recalled his appointment as first Secretary on the formation of the Institute in 1908 and referred to the great expansion in membership and activities that had taken place since then. He said he had no doubt many members and organizations would wish to make presentations to the Institute in its Jubilee year, and he was anxious to be first among them.

The portrait was accepted on behalf of the Institute by the President (Major C. J. P. Ball).

The Engineering, Marine, Welding, and Nuclear Energy Exhibition: Official Visit by Members of the Institute

This Exhibition is to be held in Olympia, London W.14, from 29 August to 12 September 1957. The organizers of the Exhibition have issued an invitation to the Institute to pay an official visit on Thursday, 5 September, and it is hoped that there will be a large attendance of members on that day. Tickets of invitation will be distributed with the *Bulletin* at a later date.

PERSONAL NOTES

Professor G. Wesley Austin has been appointed Consulting Supervisor to the Metallurgy Division of the British Iron and Steel Research Association.

Mr. R. W. Bailey has relinquished his appointment with the Zinc Development Association in order to train for ordination to the Christian Ministry.

Mr. E. W. Colbeck, a director of Hadfields, Ltd., has been elected a Member of Council of the Iron and Steel Institute.

Dr. Maurice Cook is to deliver the Annual Lecture to the 10th Annual Conference of the Australian Institute of Metals to be held in Sydney, N.S.W., during May. He will speak on titanium and its alloys.

Professor Dr. R. Durrer has been awarded the Bessemer Gold Medal of the Iron and Steel Institute for 1957. He is Professor of Metallurgy at the Eidgenössische Technische Hochschule, Zürich, and Managing Director of Gesellschaft der Ludwig von Roll'schen Eisenwerke A.G., Gerlafingen, Switzerland.

Professor C. F. Floe, Professor of Metallurgy and Assistant Provost at Massachusetts Institute of Technology, has been appointed Assistant Chancellor of the Institute.

Mr. J. Glen, of Colvilles, Ltd., has been awarded the Sir Robert Hadfield Medal of the Iron and Steel Institute for 1957.

Dr. J. Heslop has left the Naval Construction Research Establishment, Dunfermline, and joined the staff of the Development and Research Department, The Mond Nickel Co., Ltd., Birmingham.

Dr. T. P. Hoar, Lecturer in Metallurgy at the University of Cambridge, has been elected President of the Institute of Metal Finishing for the session 1957–58.

Mr. H. J. Miller has left British Insulated Callender's Cables, Ltd., and joined Imperial Chemical Industries, Ltd., Metals Division.

Mr. J. F. Mills has been appointed Manager of the new titanium plant of Imperial Chemical Industries, Ltd., Metals Division, at Waunarlwydd, near Swansea.

Dr. B. R. Nijhawan has been appointed Director of the National Metallurgical Laboratory, Jamshedpur. He has also been recently elected a Fellow of the National Institute of Sciences of India.

Mr. J. L. Rice has left the British Non-Ferrous Metals Research Association to join the Harlow Metal Co., Ltd., Harlow, Essex.

Dr. F. D. Richardson, Nuffield Fellow at the Imperial College of Science and Technology, has been appointed to the Chair of Extraction Metallurgy at the College.

Dr. R. Seifert has been awarded the honorary degree of Dr.-Ing. by the Technische Hochschule, Hanover.

Mr. B. Trehearne has resigned his position as Development Officer, British Welding Research Association, to take up an appointment with Langley Alloys, Ltd., Langley, Bucks.

Mr. R. K. Walton has been transferred from the Nelson Research Laboratories to the Aircraft Equipment Division of the English Electric Co., Ltd., Bradford, Yorks.

Mr. C. J. Williams has relinquished his post as Manager of the Casting Division of High Duty Alloys, Ltd., and has been appointed Technical and Sales Director of A. Wigley (Belper), Ltd., Horsley, Woodhouse, Derbyshire.

Deaths

The Editor regrets to announce the death of:

Mr. Ganes Chandra Mitter, a Corresponding Member to the Council for India, on 10 February, in his 60th year.

Dr. J. S. G. Thomas, which took place suddenly at his home at Cheltenham on 11 March. Dr. Thomas's initials had been familiar for very many years to readers of *Metallurgical Abstracts*, and his pungent book reviews were widely appreciated. He was formerly physicist to the South Metropolitan Gas Co., Ltd., from which position he retired some years ago.

JOINT ACTIVITIES

Sir George Beilby Memorial Award, 1956

The Administrators of the Sir George Beilby Memorial Fund, representing the Institute of Metals, the Royal Institute of Chemistry, and the Society of Chemical Industry, have made an award from the Fund for 1956, of one hundred and fifty guineas, to:

R. W. Kear, F.R.I.C., M.Inst.F., in recognition of his work on the behaviour of fuel impurities in combustion processes, with special reference to the role of sulphur, chlorine, and alkalies in corrosion and deposit formation by flue gases in combustion appliances.

Awards from the Fund are made to British investigators in science as a mark of appreciation of distinguished work, particularly in such fields as fuel economy, chemical engineering, and metallurgy, in which Sir George Beilby's special interests lay. In general, the awards are not applicable to more senior investigators, but are granted as an encouragement to relatively young men who have done independent work of exceptional merit over a period of years. The Administrators are free, however, to interpret this general provision very widely in specific instances.

Mond Nickel Fellowships

The following additional award for 1956 has been made:

Mr. G. F. C. du Plessis (South African Iron and Steel Industrial Corporation, Ltd., Pretoria, South Africa) to study the preparation of ores by sintering, pelletizing, &c., and the effect on blast-furnace practice of the use of prepared burdens.

OTHER NEWS

Cambridge Summer School in "The Use of Electrons in the Examination of Metals"

A Summer School in "The Use of Electrons in the Examination of Metals" will be held in the Department of Metallurgy and Physics, Cambridge University, from 9 to 20 July 1957.

Within the last few years important advances have been made in the design of high-resolution electron microscopes and in the specimen techniques used for examining metals. Simultaneously with these developments, new electron-optical methods, such as scanning electron microscopy, selected-area diffraction, X-ray microscopy, and X-ray micro-analysis, have been used for examining metals. At the Summer School, the theory and practice of these new techniques will be described. Apart from the main lectures for which some knowledge of electron microscopy will be assumed, there will be a series of elementary lectures and practical demonstrations for those coming new to this field of research.

The fee for the course is £25. Accommodation will be in Pembroke College, Cambridge.

Further information and application form for attendance may be obtained from the Secretary, The Board of Extra-Mural Studies, Stuart House, Mill Lane, Cambridge, to whom the completed application form should be returned not later than 15 May, 1957.

Postgraduate Course in Nuclear Power

In October 1957 the Imperial College of Science and Technology will offer, for the first time, a year's full-time postgraduate course of instruction in nuclear power. The course will be administered by the Department of Mechanical Engineering under the general supervision of the Professor of Nuclear Power, in association with the Departments of Physics, Metallurgy, Electrical Engineering, Civil Engineering, and Chemical Engineering.

The arrangements for the course will be based on the belief that nuclear power is not a distinct technology, but a new field of application for the existing basic branches of engineering and applied science. This view is supported by the leading figures both in the Atomic Energy Authority and in the engineering industry, who have been consulted in planning the course.

The Nuclear Power course is intended for students holding a good honours degree in Mechanical, Chemical, Civil, or Electrical Engineering.

The fee for the full course is £64 for the session of three terms. Candidates may also be considered for one or more optional lecture courses at pro rata rates.

Satisfactory completion of the course will qualify for the award of the Diploma of the Imperial College (D.I.C.).

Applications for admission to the course should be made as soon as possible and not later than 1 July on a form obtainable from the Registrar, Imperial College, London, S.W.7.

APPOINTMENTS VACANT

A LARGE COMPANY manufacturing a wide range of electrical products has a vacancy for a CHIEF METALLURGIST. The work is in the refractory-metal field primarily concerned with the production of tungsten and molybdenum for special applications. This is a senior position which can be filled only by a man who has, in addition to considerable technical experience, an ability to lead and direct a development team. The company is about to expand its metallurgical development facilities, and the successful applicant will be expected to guide this expansion. Young qualified men with industrial experience in this field and with outstanding drive are particularly invited to apply to Box No. 428, The Institute of Metals, 17 Belgrave Square, London, S.W.1.

AN EXPERIENCED METALLURGICAL CHEMIST is required for routine assays of non-ferrous alloys (including white metals). The laboratory is well equipped and staffed and is located in the South Western district of Greater London. The position carries a good salary, a pension, and is progressive to considerable responsibility with corresponding remuneration. Write, giving personal details, experience, and present salary to Box No. 429, The Institute of Metals, 17 Belgrave Square, London, S.W.1.

APPLICATIONS are invited from Metallurgists or Physicists for research on:

(*a*) properties of liquid alloys as related to behaviour in nuclear reactors; and

(*b*) physical metallurgy of the newer metals.

Work suitable for higher degrees, but applications from more senior workers welcomed. Honours degree in Metallurgy, Physics, or related subject essential. Value in range £300–£900 p.a. according to experience and status of applicant. Applications to Professor J. G. Ball, Metallurgy Department, Imperial College, London, S.W.7.

A QUALIFIED METALLURGIST is required by The Chloride Electrical Storage Company in their Central Research and Development unit at Clifton Junction to carry out investigational work primarily concerned with lead-base alloys. The successful candidate, who should be an A.I.M. or qualified by Degree, should be capable of eventually leading a section in this work. An attractive commencing salary is offered, and the Company operates a non-contributory pension scheme. Applications, giving full details of qualifications and experience, should be addressed to the Chief Personnel Officer, Exide Works, Clifton Junction, Swinton, Manchester.

BRITISH WELDING RESEARCH ASSOCIATION require a Metallurgist for a vacancy in its Development and Advisory Department. Degree or equivalent qualification in metallurgy and industrial experience including welding technology necessary. Excellent opportunity for close liaison with industrial establishments and with research workers in the welding field. Salary in scale £900–£1300. F.S.S.U. Pension Scheme. Apply Secretary, B.W.R.A., 29 Park Crescent, London, W.1.

FOUNDRY ENGINEER required by large industrial concern in the Midlands. Duties involve development work both in processes and plant from the initial stages right through to practical application. Though both ferrous and non-ferrous metals are involved, the emphasis is on non-ferrous. Salary commensurate with abilities and experience. Apply, giving details, to Director of Research, Rubery Owen and Co., Ltd., Darlaston, marking envelope "Foundry Engineer".

FULMER RESEARCH INSTITUTE, LTD., requires the services of two graduate physical chemists, or of graduates in metallurgy or physics who have an interest in physical chemistry. The work will be chiefly concerned with thermodynamic and thermo-chemical determinations in the field of inorganic compounds and alloy systems. It is likely that the results of the work will be published. Salary according to qualifications and experience in the range of £650–£850 p.a. for a young graduate. Apply: The Director, Fulmer Research Institute, Stoke Poges, Bucks.

GILLETTE INDUSTRIES, LTD., require a QUALIFIED METALLURGIST. The successful candidate will be between 23 and 30 years of age, and will have had some experience of the metallurgy of non-ferrous metals with further experience in operations such as hot stamping, pressing, machining, and general allied engineering processes. His duties will involve the investigation of problems arising out of current manufacturing methods, and the quality control of raw materials, including rod and strip brass and aluminium.

Benefits include life insurance, contributory provident, and non-contributory pension schemes. Applications in writing, which will be treated with strictest confidence, should give full details of age, education, experience, and salary required, and should be addressed to: The Staff Relations Officer, Gillette Industries, Ltd., Great West Road, Isleworth, Middlesex, quoting EAS/5.

IMPERIAL SMELTING CORPORATION, LTD., requires Physical Metallurgist or, alternatively, a Physicist with Metallurgical experience for its Research Department. The work will be of varied character, involving both fundamental studies of zinc alloy systems and some technical sales work. Candidates should, preferably, have Research qualifications in Physical Metallurgy, and be aged under 30. Applications to Personnel Manager, Imperial Smelting Corporation, Ltd., St. Andrews Road, Avonmouth, Bristol, quoting reference AJE/IM.

METALLURGICAL RESEARCH

THE MOND NICKEL CO., LTD., invites applications from qualified metallurgists for a post on the senior staff of its Birmingham Research Laboratory. The work covers a wide field, from the development of non-ferrous materials to resist dry corrosion to the investigation of alloys with special physical properties. Previous research experience is preferable but not essential.

The successful candidate will join a well-equipped research team, which both serves and enjoys the services of other teams studying all aspects of ferrous and non-ferrous alloys.

Salary will be in accordance with experience and qualifications. Pension and insurance schemes are in operation and, in appropriate cases, assistance can be given with housing. Applications, which will be treated in confidence, should give details of age, qualifications, and experience, and be addressed to The Manager, Development and Research Department, The Mond Nickel Co., Ltd., Thames House, Millbank, London, S.W.1. Mark envelope "Confidential L.43".

OLD-ESTABLISHED NON-FERROUS METALS MANUFACTURERS in S.W. Lancashire require qualified metallurgists for Process Control. These vacancies are particularly suitable for young men who have completed, or are about to complete, their National Service. Applicants should write, stating details of education and qualifications, to Box No. 426, The Institute of Metals, 17 Belgrave Square, London, S.W.1.

SIEMENS EDISON SWAN RESEARCH LABORATORY

Siemens-Ediswan Limited

Vacancies exist in the Metallurgical Section of the newly established Research Laboratory, for Research Scientists and Technologists, of degree standard, H.N.C., L.I.M., or equivalent qualifications. Vacancies for Technical and Laboratory Assistants exist also.

The work is concerned with the investigation of materials for use in the electronic, telephone, and cable fields, and promises considerable scope for initiative and advancement. Successful applicants will be expected to reside in the Harlow area, where housing is available if required. Please write, in the first instance, quoting reference M/I, giving age, qualifications, and experience to:

Personnel Officer,
Siemens Edison Swan Research Laboratory,
c/o Associated Electrical Industries, Ltd.,
Aldermaston Court, Aldermaston, Berks.

THE ROYAL COLLEGE OF SCIENCE AND TECHNOLOGY, GLASGOW

In Affiliation with the University

Applications are invited for Lectureship in Metallurgy. Candidates should have a good degree and preferably industrial experience. Salary on scale £900 × £50 to £1350 × £75 to £1650 with F.S.S.U. and Family Allowances. Application forms from the Secretary.

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